491 Harness Installation Kit

002-0759-00

MIDMARK®

CE

Kit Components:	Qty
Harness Assy	1
Wire Clip	2
Wire Tie (7 1/2 “)	5
Wire Tie (7 1/4 “)	4
Installation Instruction	1

Remove Back Cover

Warning

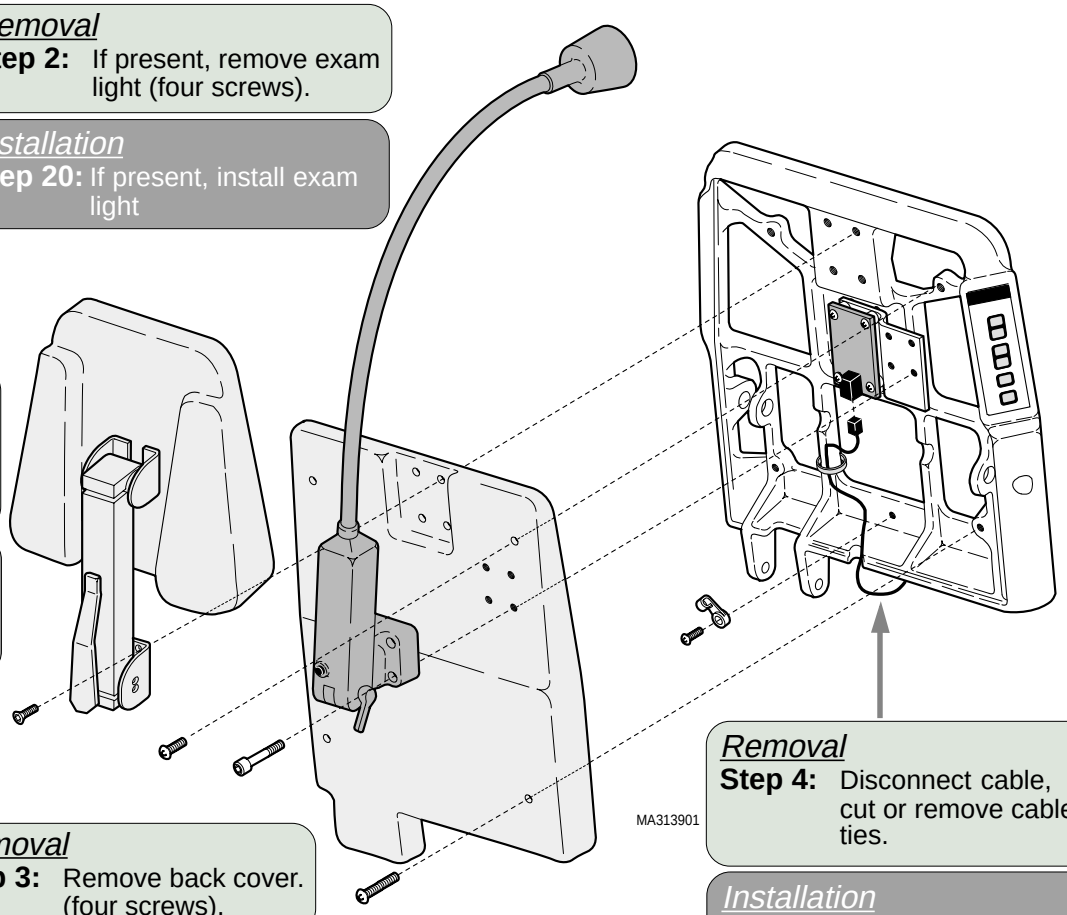
Disconnect Power before removing parts.

Removal
Step 2: If present, remove exam light (four screws).

Installation
Step 20: If present, install exam light

Removal
Step 1: Remove Headrest or Headrest Block Assembly (four screws).

Installation
Step 21: Install Headrest or Headrest Block Assembly.



Removal
Step 4: Disconnect cable, cut or remove cable ties.

Installation
Step 18: Connect cables to appropriate connectors and secure with cable ties.

Removal
Step 3: Remove back cover. (four screws).

Installation
Step 19: Install back cover.

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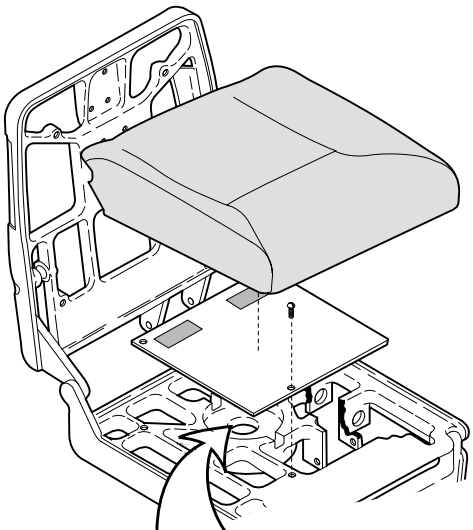
Access , Removal, and Installation of Thrust Bearing



Removal
Step 5: Remove seat upholstery and cover.

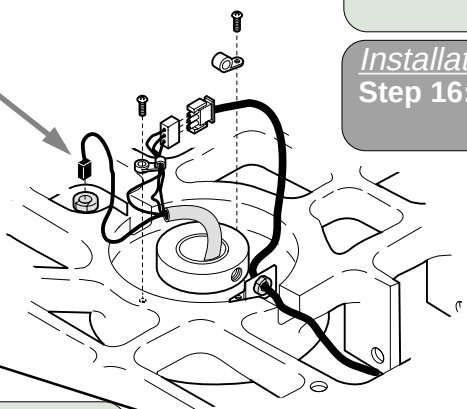
Installation
Step 17: Install seat cover and upholstery.

Removal
Step 6: Carefully pull cord out of bushing.

Installation
Step 15: Insert cord end through bushing.

Removal
Step 7: Remove cable ties and disconnect wire harness.

Installation
Step 16: Connect wire harness and secure with cable ties.



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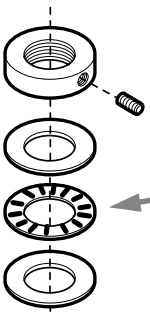
Removal
Step 9: Loosen set screw and unscrew seat nut.

Installation
Step 13: Install seat nut so counterbore is facing <u>downward</u>. Adjust Rotational Lock (Page 6).

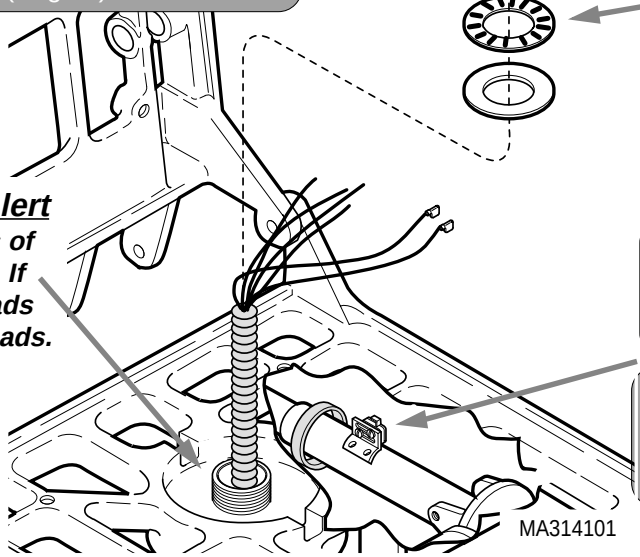


Removal
Step 10: Remove thrust washers and bearing.

Installation
Step 12: Coat with vaseline and install thrust washers and bearings.

<u>Equipment Alert</u>

Inspect threads of slide weldment. If necessary use a 20 threads per inch file to clean threads.



Removal
Step 8: Disconnect wires from back actuator limit switch. Cut cable ties to free wires.

Installation
Step 14: Connect wire to Back Actuator limit switch (C-NC). Secure with cable tie.

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Table Top and Shrouds
Removal and Installation

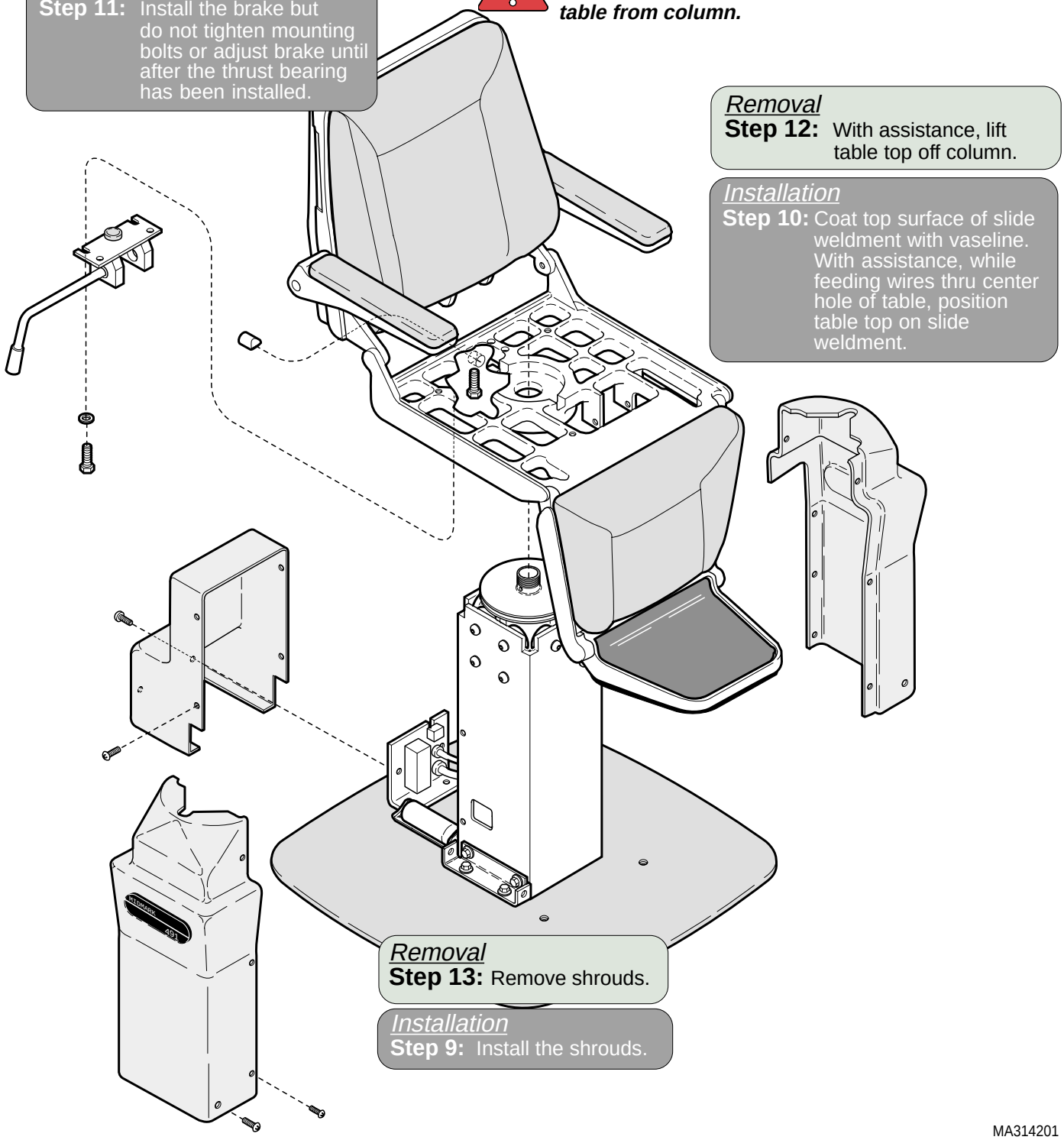
Step 11: Remove brake assembly (four bolts) and stop.

Installation
Step 11: Install the brake but do not tighten mounting bolts or adjust brake until after the thrust bearing has been installed.

Warning
Use two people to lift table from column.

Removal
Step 12: With assistance, lift table top off column.

Installation
Step 10: Coat top surface of slide weldment with vaseline. With assistance, while feeding wires thru center hole of table, position table top on slide weldment.



Removal
Step 13: Remove shrouds.

Installation
Step 9: Install the shrouds.

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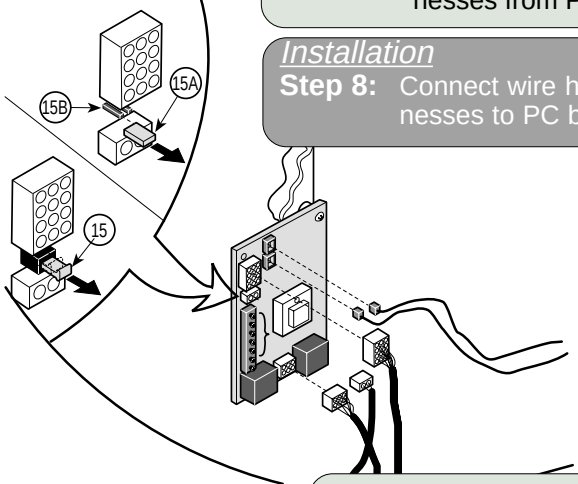
Wire Harness Disconnecting and Connecting.

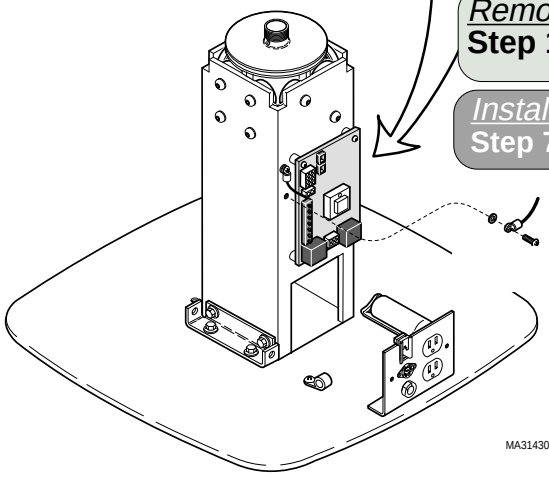
Removal
Step 14: Disconnect wire harnesses from PC board.

Installation
Step 8: Connect wire harnesses to PC board.



Removal
Step 15: Remove ground wire.

Installation
Step 7: Install ground wire.



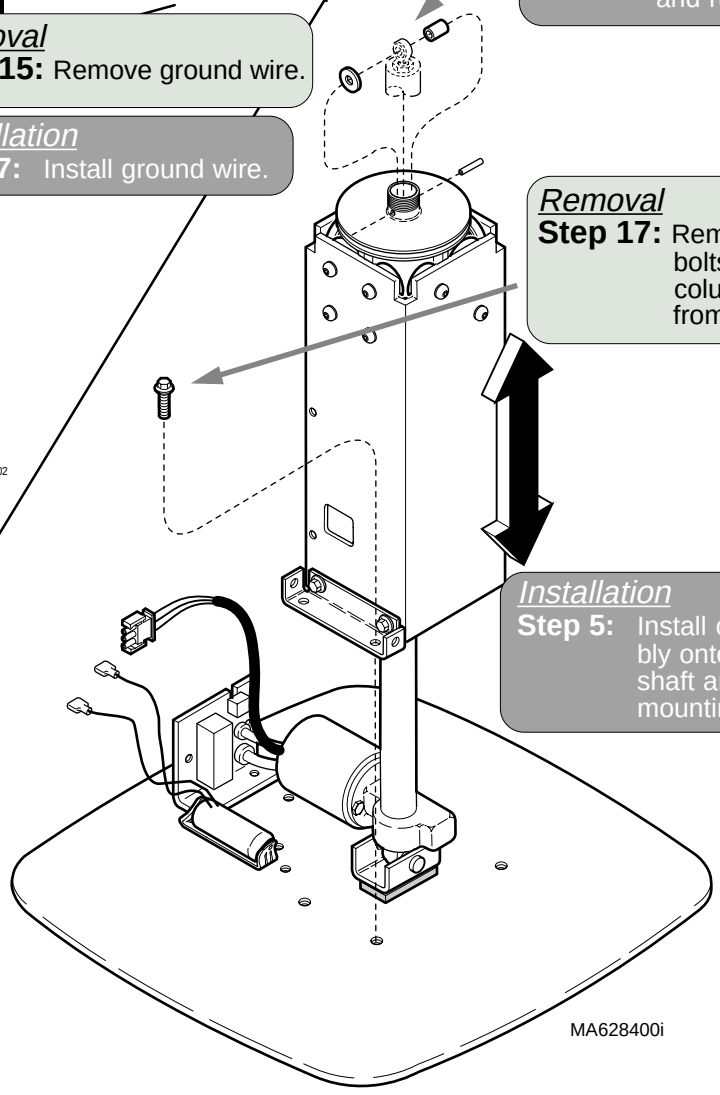
Column Assembly Removal and Installation.

Removal
Step 16: Remove pin, spacer, and rubber washer.

Installation
Step 6: Install pin, spacer, and rubber washer.

Removal
Step 17: Remove mounting bolts and Lift column assembly from actuator shaft.

Installation
Step 5: Install column assembly onto actuator shaft and secure with mounting bolts.



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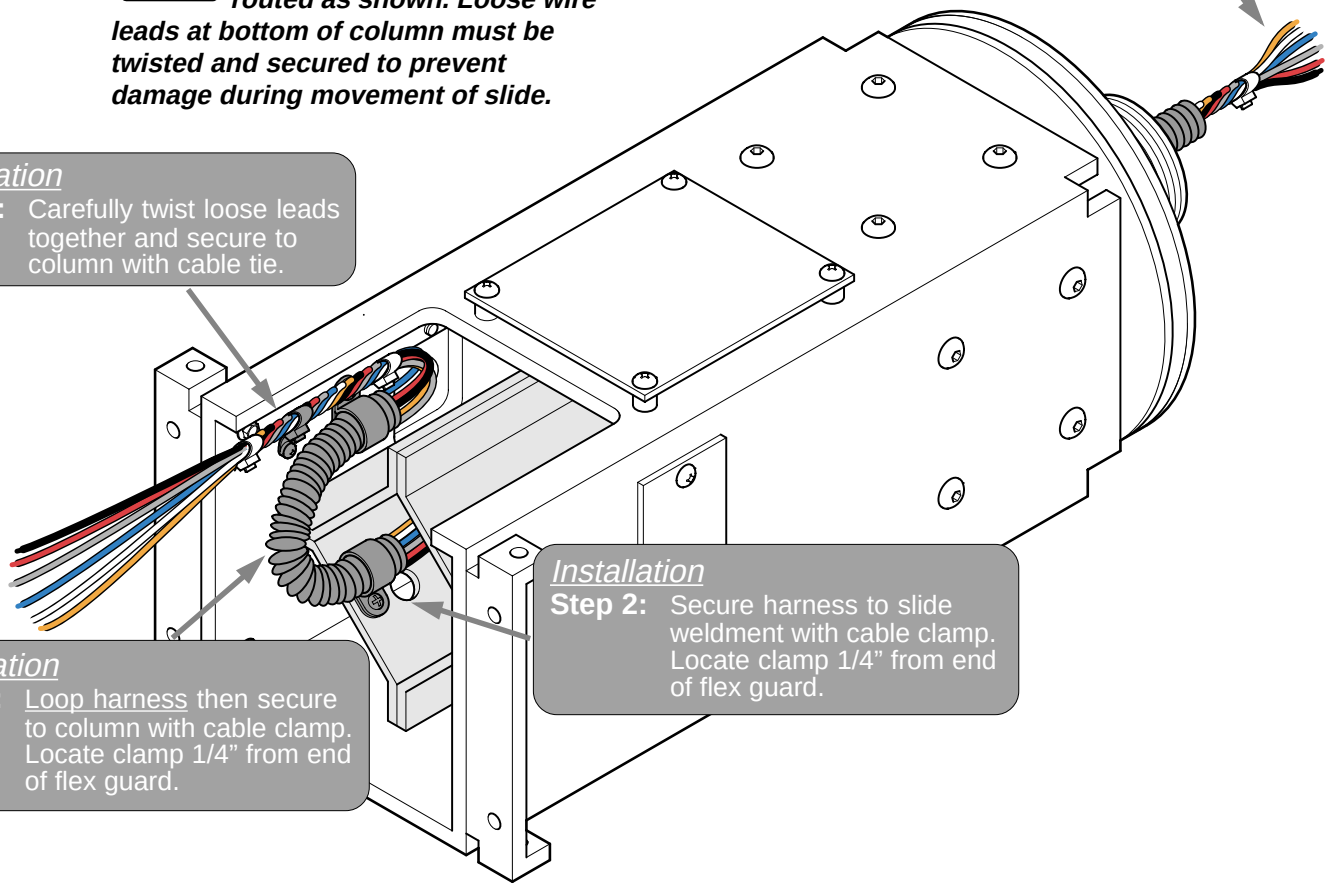
Harness Installation.

Removal
Step 18: After laying column on its side, remove wiring harness.

Installation
Step 1: Route wire harness thru column. End with longest protruding cordset (phone connector) goes thru top of column.

Equipment Alert
Wire harness must be routed as shown. Loose wire leads at bottom of column must be twisted and secured to prevent damage during movement of slide.

Installation
Step 4: Carefully twist loose leads together and secure to column with cable tie.



Installation
Step 2: Secure harness to slide weldment with cable clamp. Locate clamp 1/4” from end of flex guard.

Installation
Step 3: Loop harness then secure to column with cable clamp. Locate clamp 1/4” from end of flex guard.

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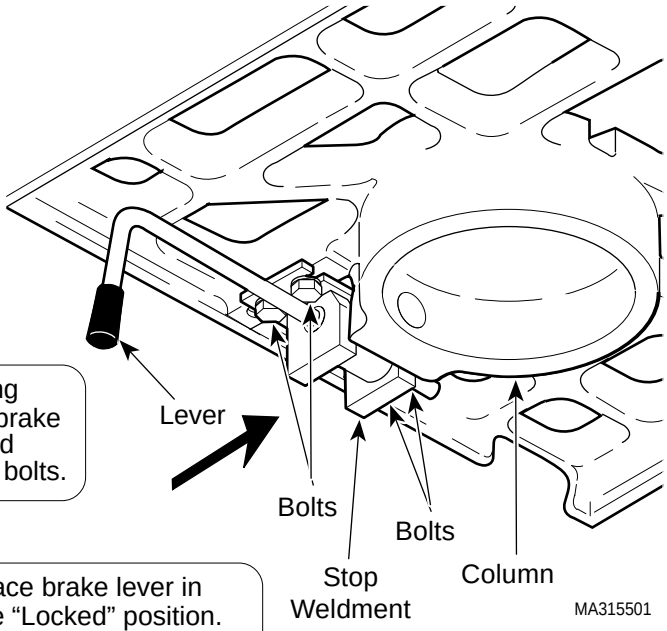
Rotational Lock Adjustments

Brake Adjustment

Step A: Rotate brake lever to "Unlocked" position.

Step B: Loosen mounting bolts and push brake weldment toward column.Tighten bolts.

Step C: Place brake lever in the "Locked" position. Try rotating table top and adjust accordingly.

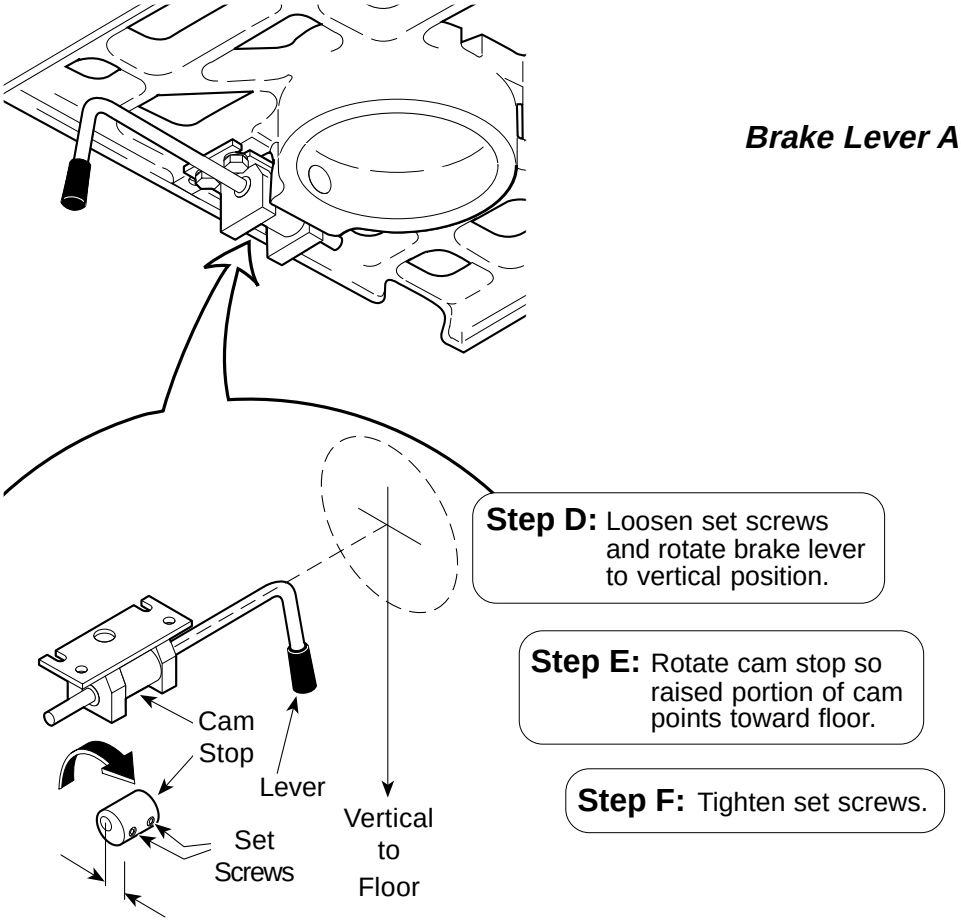


Brake Lever Adjustment

Step D: Loosen set screws and rotate brake lever to vertical position.

Step E: Rotate cam stop so raised portion of cam points toward floor.

Step F: Tighten set screws.



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